Replacing the Inlet / Waste Tubings

Frequency	When contaminated, worn out or visibly damaged Typically once every year
Tools required	None
Parts Required	Inlet / waste tubing assembly included in tubing kit **preparative scale 0.8 mm ID,** PN G1364-68711 **or** Inlet / waste tubing assembly included in tubing kit **analytical scale 0.25 mm ID,** PN G1364-68712

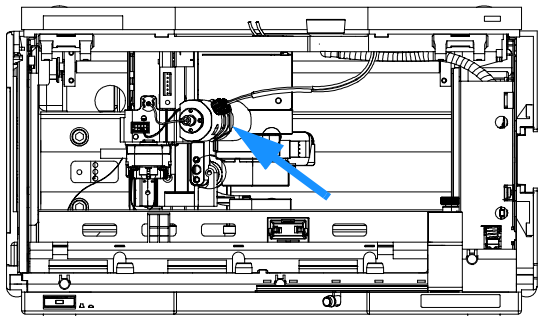
WARNING **To avoid personal injury, keep fingers away from the needle area during fraction collector operation. Do not bend the safety flap away from its position, or attempt to insert or remove a vial from the gripper when the gripper is positioned below the needle.**

WARNING **Thoroughly follow the described installation procedures to maximize the lifetime of the inlet / waste tubings and to avoid potential spills or fraction losses. Regularly inspect the tubings and exchange them if they are worn out or show visible signs of damage.**

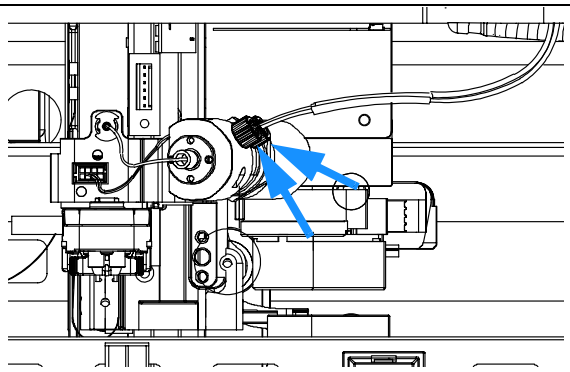
Before beginning this procedure:

- ❏ Position the transport unit of the fraction collector in the “Home Position” (see page 70 of your reference manual).
- ❏ Remove all installed trays from the tray base.
- ❏ Position the transport unit of the fraction collector in the “Exchange Parts Position” (see page 70 of your reference manual).
- ❏ Turn off the instrument.
- ❏ Remove the rear end of the fraction collector’s waste tubing from the waste container, unscrew the front end of the fraction collector’s inlet tubing from the flow cell of the detector.

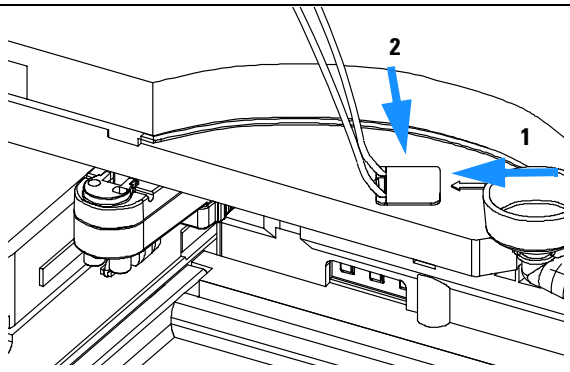
1 Locate the diverter valve with the finger-tight fittings of the inlet / waste tubing assembly (the figure shows the open fraction collector seen from the front).



2 Unscrew the 2 finger-tight fittings of the inlet / waste tubing assembly at the diverter valve.



3 Unplug the inlet / waste tubing assembly from the bolt carrier (located on the top center of the front cover) by moving the snapper as indicated by the arrows. Slide the tubings out to the bottom.



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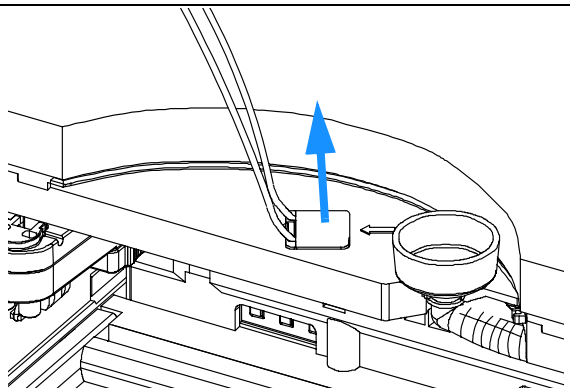
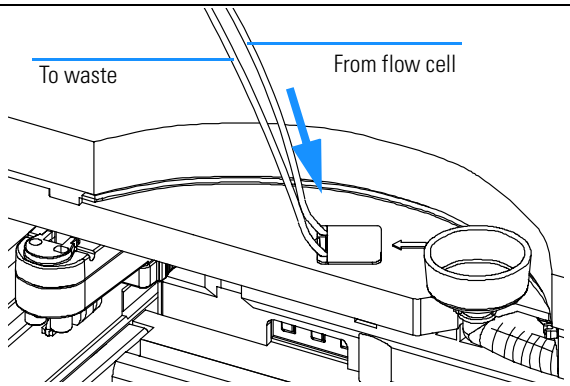
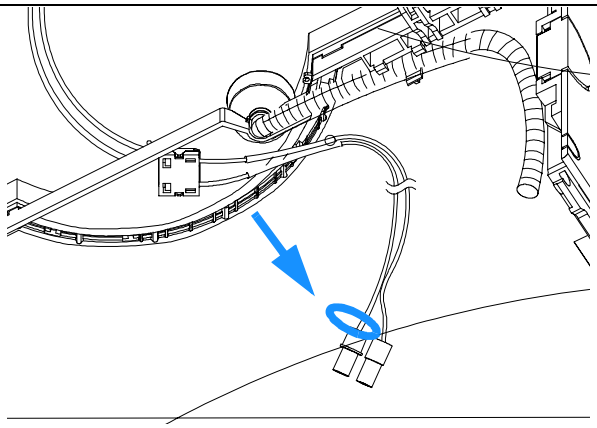
4 Install the new inlet / waste tubing assembly into the bolt carrier as shown below. Slide in the long ends of the tubings from bottom to top and let the snapper click into position.



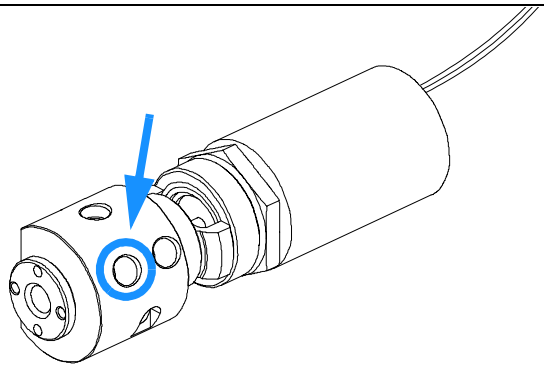
5 The rear tubing (with the label with the arrow) must be connected to the flow cell of the detector. The front tubing must be inserted into the waste container.



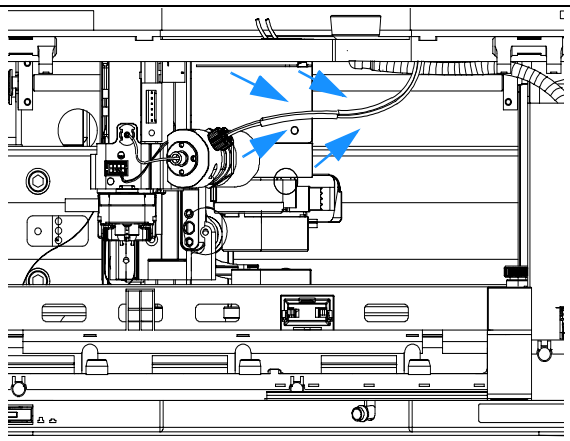
6 Connect the finger-tight fittings of the inlet / waste tubing assembly to the ports of the diverter valve. **IMPORTANT: The tubings must not be bent up- or downwards. The cables must not be twisted.** (View from the bottom)



7 A color coded ring on one of the tubings and the valve body indicates, which cable belongs to which port. **IMPORTANT: It is absolutely vital to connect these tubings as described, in order to maximize their lifetime and operating security.**



8 IMPORTANT:
The cables must run into the ports of the diverter valve in lines parallel to the horizon.



On completion of this procedure:

- ❏ Re-install the tray(s) in the tray base.
- ❏ Start the instrument.
- ❏ Close the front cover.

Replacing the Valve to Needle Tubings

Frequency	When contaminated, worn out or visibly damaged. Typically once every year
Tools required	Wrench, open end, 4mm, PN 8710-1534 (supplied in accessory kit) Wrench, open end, 1/4 – 5/16 inch, PN 8710-0510 (supplied in accessory kit)
Parts Required	Valve to needle tubing assembly included in tubing kit **preparative scale 0.8 mm ID,** PN G1364-68711 **or** valve to needle tubing assembly included in tubing kit **analytical scale 0.25 mm ID,** PN G1364-68712

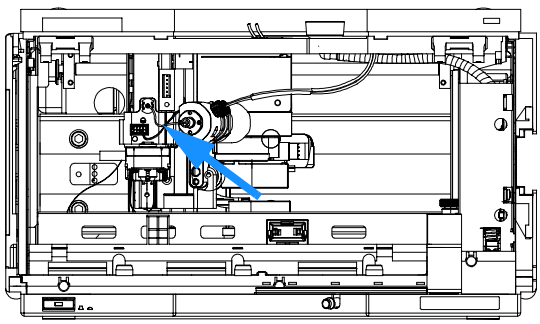
WARNING **To avoid personal injury, keep fingers away from the needle area during fraction collector operation. Do not bend the safety flap away from its position, or attempt to insert or remove a vial from the gripper when the gripper is positioned below the needle.**

WARNING **Thoroughly follow the described installation procedures to maximize the lifetime of the valve to needle tubing and to avoid potential spills or fraction losses. Regularly inspect the tubings and exchange them if they are worn out or show visible signs of damage.**

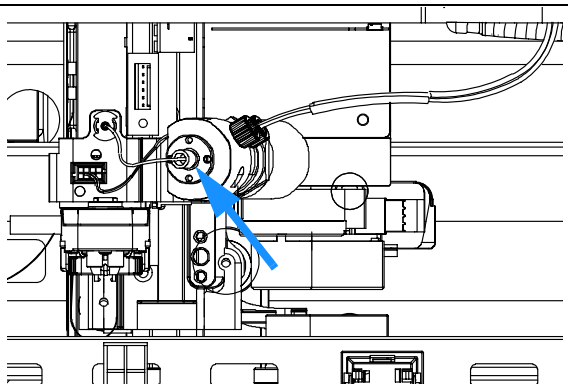
Before beginning this procedure:

- ❏ Position the transport unit of the fraction collector in the “Home Position” (see “Maintenance Functions” on page 70 of your reference manual).
- ❏ Remove all installed trays from the tray base.
- ❏ Position the transport unit of the fraction collector in the “Exchange Parts Position” (see page 70 of your reference manual) and turn off the instrument.
- ❏ It might be more convenient to remove the needle from its carrier before unscrewing the needle tubing.

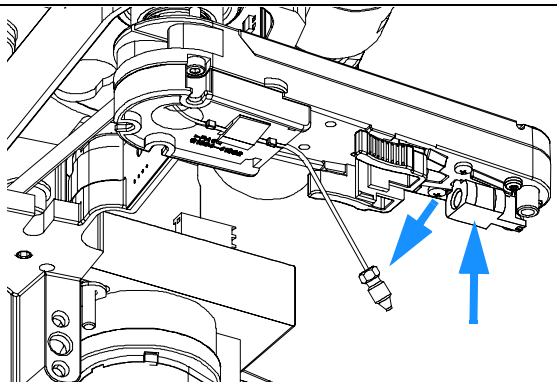
1 Locate the diverter valve with the finger-tight fittings of the valve to needle tubing assembly (the figure shows the open fraction collector seen from front).



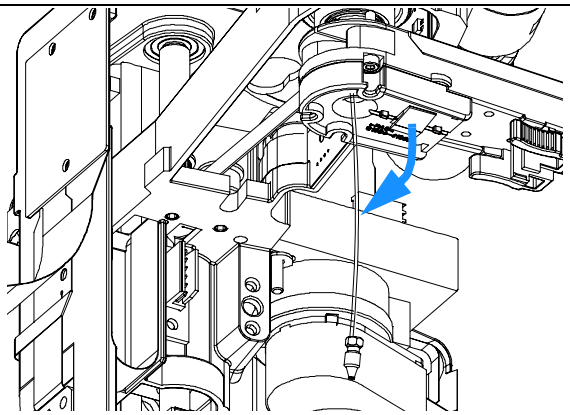
2 Unscrew the finger-tight fitting of the valve to needle tubing assembly at the diverter valve.



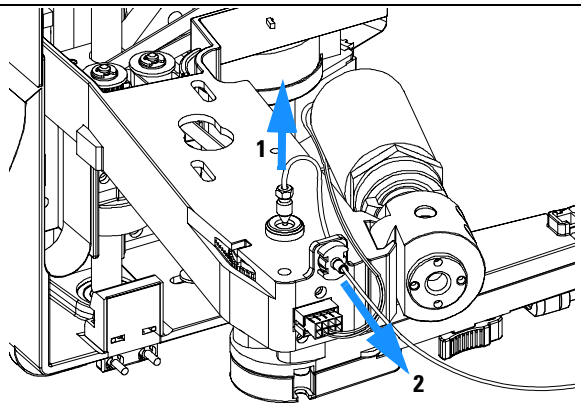
3 Using the 4 mm wrench and the 5/16“ wrench for counter-holding unscrew the valve to needle tubing from the needle. (Viewed from the bottom)



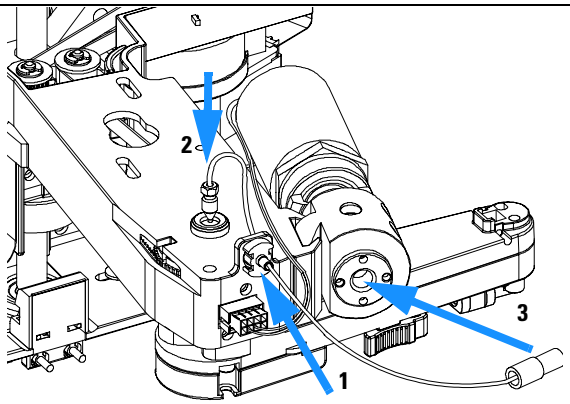
4 Un-clip the tubing from the bottom of the needle carrier assembly.



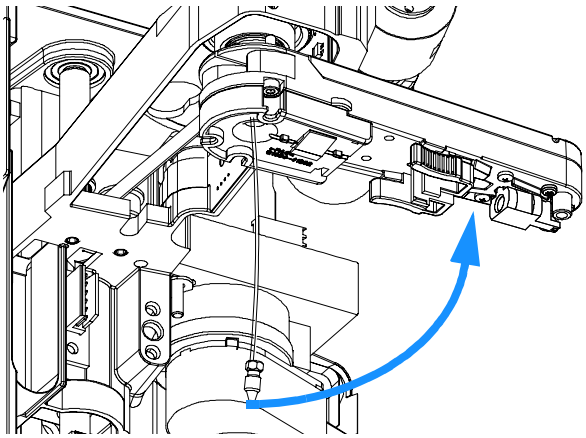
5 Slide the tubing through the hole in the needle carrier assembly (from bottom to top) and out of the holder in the z-arm assembly.



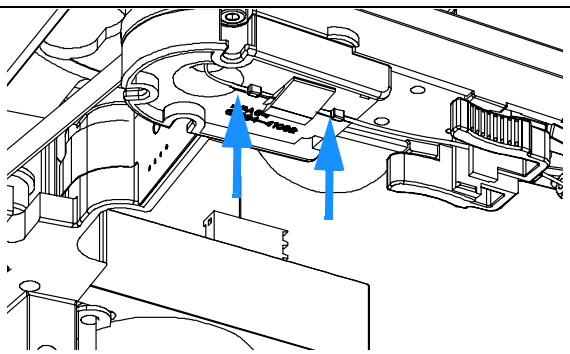
6 Install the new valve to needle tubing assembly by clipping it in to the holder in the z-arm assembly **(1) Important!!!)**, slide it through the hole in the z-arm (2) and out on the bottom of the needle carrier assembly (top to bottom). Screw the finger-tight fitting into the port of the diverter valve (3).



7 Using the 4 mm wrench and the 5/16“ wrench for counter-holding connect the valve to needle tubing to the needle. (Viewed from the bottom)



8 IMPORTANT: After fixing the screw clip the tubing into the guide on the bottom of the needle carrier assembly. **IMPORTANT: It is absolutely vital that the tubing is installed as described, to maximize the lifetime of the tubing.**



On completion of this procedure:

- ❏ Re-install the needle to the needle carrier assembly, if you previously removed it. Make sure to slide the needle all the way to the front of the needle carrier assembly (clicks into position).
- ❏ Re-install the tray(s) in the tray base.
- ❏ Start the instrument.
- ❏ Close the front cover.

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